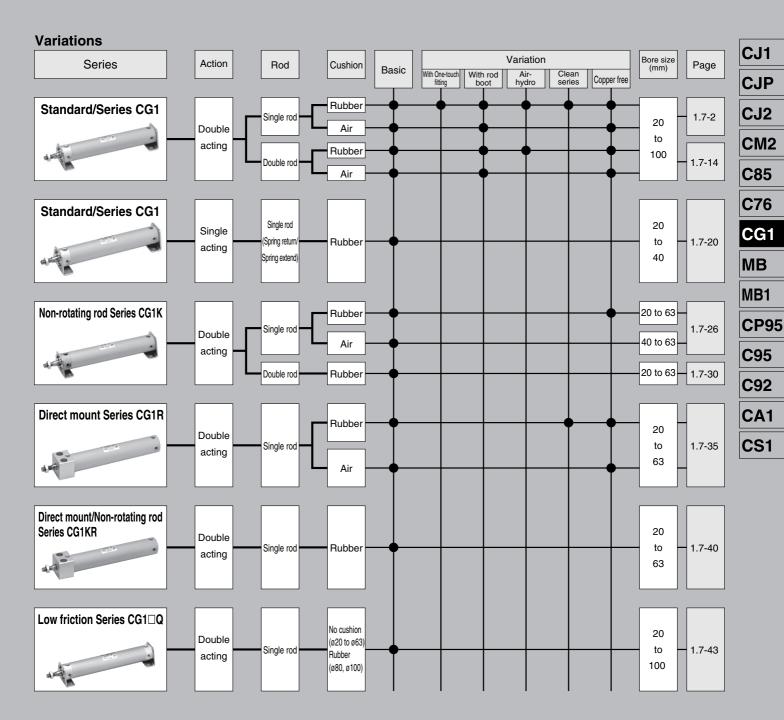


Air Cylinder Series CG1

ø20, ø25, ø32, ø40, ø50, ø63, ø80, ø100



Applicable auto switch

Auto switch model Band mounting Reed D-C7/8, D-C73C/C80C switch D-B5/B6, D-B59W D-H7□, D-H7□W, D-H7□F Solid state D-H7BAL, D-H7C, D-G5/K5 switch D-G5 W/K59W, D-G59F, D-G5NTL

Made to Order

Refer to p.5.4-1 for made to order products of series CG1



Series CG1

Mounting Bracket Part No.

Mounting bracket		Bore size (mm)											
wounting bracket	20	25	32	40	50	63	80	100					
Axial foot*	CG-L020	CG-L025	CG-L032	CG-L040	CG-L050	CG-L063	CG-L080	CG-L100					
Flange	CG-F020	CG-F025	CG-F032	CG-F040	CG-F050	CG-F063	CG-F080	CG-F100					
Trunnion	CG-T020	CG-T025	CG-T032	CG-T040	CG-T050	CG-T063	_	_					
Clevis**	CG-D020	CG-D025	CG-D032	CG-D040	CG-D050	CG-D063	CG-D080	CG-D100					
Pivot bracket	CG-020-24A	CG-025-24A	CG-032-24A	CG-040-24A	CG-050-24A	CG-063-24A	CG-080-24A	CG-100-24A					

- * Order two foot brackets per a cylinder.
- ** Clevis pins, snap rings and mounting bolts are attached for the clevis.
 *** Mounting bolts are attached for the foot type and the flange type.

Auto Switch Mounting Bracket Part No.

Auto switch	Bore size (mm)										
model	20	25	32	40	50	63	80	100			
D-C7/C8	BMA2-020	DMA2 025	DMA2 022	DMA2 040	DMA2 050	BMA2-063					
D-H7	DIVIAZ-UZU	DIVIAZ-023	DIVIAZ-USZ	DIVIAZ-040	DIVIAZ-030	DIVIAZ-003					
D-B5/B6	BA-01	BA-02	BA-32	BA-04	BA-05	BA-06	BA-08	BA-10			
D-G5/K5	DA-01	DA-02	DA-32	BA-04	DA-03	DA-06	BA-08	BA-10			



* A set of following stainless steel mounting screws is attached. (A switch mounting band is not attached. Please order the band separately.)

BBA3: D-B5/B6/G5 types

BBA4: D-C7/C8/H7 types

"D-G5BAL" and "D-H7BAL"switches are set on the cylinder with the screws above when shipped. When a switch only is shipped, "BBA3" or "BBA4" screws are attached.

Weight

Wei	ght								(kg)
	Bore size (mm)		25	32	40	50	63	80	100
	Basic	0.10	0.17	0.26	0.41	0.77	1.07	2.04	3.17
eigh	Axial foot	0.21	0.30	0.42	0.63	1.25	1.79	3.00	4.92
Basic weight	Flange	0.18	0.27	0.40	0.61	1.11	1.57	2.75	4.52
Bas	Trunnion	0.11	0.19	0.29	0.46	0.91	1.21	_	_
	Clevis	0.15	0.25	0.41	0.64	1.17	1.75	2.75	4.45
Pivo	t bracket	0.08	0.09	0.17	0.25	0.44	0.80	0.98	1.75
Sing	le knuckle joint	0.05	0.09	0.09	0.10	0.22	0.22	0.39	0.57
Doub	ole knuckle joint (with pins)	0.05	0.09	0.09	0.13	0.26	0.26	0.64	1.31
Additi	onal weight by each 50 stroke	0.05	0.07	0.09	0.15	0.22	0.26	0.35	0.49
Addit	tional weight by air cushion	0.01	0.01	0.02	0.02	0.03	0.03	0.03	0.03
Addit	tional weight by long stroke	0.01	0.01	0.02	0.03	0.06	0.10	0.19	0.26

Calculation example: CG1LA20-100 (Foot, ø20, 100 stroke)

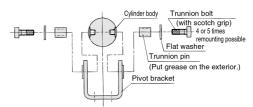
- Basic weight------0.21 (Foot, ø20)
- Additional weight------0.05/50 stroke
- Cylinder stroke ------100 stroke
- Additional weight by air cushion---0.01kg 0.21+0.05 X 100/50+0.014=0.32kg

Mounting Procedures

Trunnion

Follow the procedures below when mounting a pivot bracket on the trunnion.

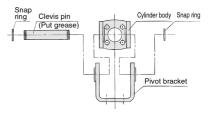
ø20 to ø63

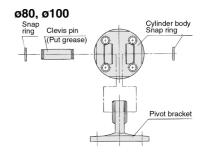


Clevis

Follow the procedures below when mounting a pivot bracket on the clevis.

ø20 to ø63

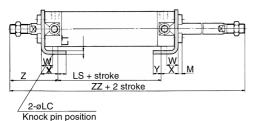


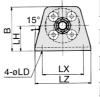


Standard: Double Acting Double Rod Series CG1W

With Mounting Bracket

Axial foot/CG1WLN





Foot													(mm)
Bore (mm)	Stroke range (mm)	В	LC	LD	LH	LS	LT	LX	LZ	М	W	х	Υ	Z
20	Up to 350	34	4	6	20	53	3	32	44	3	10	15	7	47
25	Up to 400	38.5	4	6	22	53	3	36	49	3.5	10	15	7	52
32	Up to 450	45	4	6.6	25	53	3	44	58	3.5	10	16	8	53
40	Up to 800	54.5	4	6.6	30	60	3	54	71	4	10	16.5	8.5	63.5
50	Up to 1200	70.5	5	9	40	67	4.5	66	86	5	17.5	22	11	75.5
63	Up to 1200	82.5	5	11	45	67	4.5	82	106	5	17.5	22	13	75.5
80	Up to 1400	101	6	11	55	74	4.5	100	125	5	20	28.5	14	95
100	Up to 1500	121	6	14	65	74	6	120	150	7	20	30	16	95

CJ1

CJP

CJ2

CM2

C85

C76

CG1

МВ

MB1

CP95

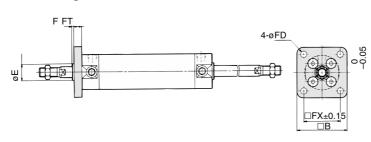
C95

C92

CA1

CS1

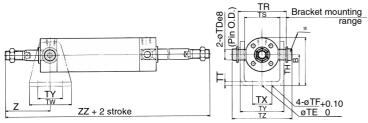
Front flange/CG1WFN



Front fi	Front flange (mm)													
Bore (mm)	Stroke range (mm)	В	E	F	FX	FD	FT							
20	Up to 350	40	12	2	28	5.5	6							
25	Up to 400	44	14	2	32	5.5	7							
32	Up to 450	53	18	2	38	6.6	7							
40	Up to 800	61	25	2	46	6.6	8							
50	Up to 1200	76	30	2	58	9	9							
63	Up to 1200	92	32	2	70	11	9							
80	Up to 1400	104	40	3	82	11	11							
100	Up to 1500	128	50	3	100	14	14							

^{*} End boss is machined on the flange for øE.

Front trunnion/CG1WUN



Front trunnion

	_							(111111)
Bore (mm)	Stroke range (mm)	В	TDe8	TE	TF	TH	TR	TS
20	Up to 200	38	8 ^{-0.025} -0.047	10	5.5	25	39	28
25	Up to 300	45.5	10 -0.025	10	5.5	30	43	33
32	Up to 300	54	12 ^{-0.032} _{-0.059}	10	6.6	35	54.5	40
40	Up to 500	63.5	14 ^{-0.032} -0.059	10	6.6	40	65.5	49
50	Up to 600	79	16 ^{-0.032} -0.059	20	9	50	80	60
63	Up to 600	96	18 ^{-0.032} -0.059	20	11	60	98	74
						/mr	n)	

								(mm)
Bore	TT	TV	TW	тх	TY	TZ		Z
(mm)	11	IV	1 00	1.7	1 1	12	Without rod boot	With rod boot
20	3.2	35.8	42	16	28	47.6	46	66 + ℓ
25	3.2	39.8	42	20	28	53	51	73 + ℓ
32	4.5	49.4	48	22	28	67.7	51	73 + ℓ
40	4.5	58.4	56	30	30	78.7	62	82 + ℓ
50	6	72.4	64	36	36	98.6	71	91 + ℓ
63	8	90.4	74	46	46	119.2	71	91 + ℓ

^{*} Consists of pins, flat washer and hexagon socket head cap bolt.

Mounting Bracket Part No.

Mounting		Bore size (mm)											
bracket	20	25	32	40	50	63	80	100					
Axial foot*	CG-L020	CG-L025	CG-L032	CG-L040	CG-L050	CG-L063	CG-L080	CG-L100					
Flange	CG-F020	CG-F025	CG-F032	CG-F040	CG-F050	CG-F063	CG-F080	CG-F100					
Trunnion pin	CG-T020	CG-T025	CG-T032	CG-T040	CG-T050	CG-T063	_	_					
Pivot bracket	CG-020 -24A	CG-025 -24A	CG-032 -24A	CG-040 -24A	CG-050 -24A	CG-063 -24A	_	_					

^{*} Order two foot brackets per a cylinder.

Auto Switch Mounting Bracket Part No.

Auto switch	Bore size (mm)									
model	20	25	32	40	50	63	80	100		
D-C7, C8	BMA2	BMA2	BMA2	BMA2	BMA2	BMA2				
D-H7	-020	-025	-032	-040	-050	-063	_	_		
D-B5, B6	DA 04	DA 00	DA 00	DA 04	DA 05	DA 00	BA-08	BA-10		
D-G5, K5	BA-01	BA-02	BA-32	BA-04	BA-05	BA-06	DA-08	DA-10		



Note) A set of following stainless steel mounting screws is attached. (A switch mounting band is not attached. Please order the band separately.)

BBA3: D-B5/B6/G5 types BBA4: D-C7/C8/H7 types

· "D-G5BAL" and "D-H7BAL"switches are set on the cylinder with the screws above when shipped.

When a switch only is shipped, "BBA3" or "BBA4" screws are attached.

^{**} Mounting bolts are attached for the foot and the flange styles.